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Lenham Heath
Kent
ME17 2JN
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DETS Report No: 25-06877

Site Reference: Glossop Road

Project / Job Ref: A6549

Order No: A6549

Sample Receipt Date: 25/07/2025

Sample Scheduled Date: 28/07/2025

Report Issue Number: 1

Reporting Date: 05/08/2025

Authorised by:



Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

For Topsoil and WAC analysis the expanded uncertainty measurement should be considered while evaluating results against compliance values.

Soil Analysis Certificate						
DETS Report No: 25-06877	~Date Sampled	23/07/25	23/07/25	23/07/25	23/07/25	23/07/25
Earth Environmental & Geotechnical Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Glossop Road	~TP / BH No	WS01	WS01	WS02	WS03	WS04
~Project / Job Ref: A6549	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: A6549	~Depth (m)	0.20	0.60	0.10	1.00	0.20
Reporting Date: 05/08/2025	DETS Sample No	784127	784128	784129	784130	784131

Determinand	Unit	RL	Accreditation	(n)				
Asbestos Screen ⁽⁵⁾	N/a	N/a	ISO17025	Not Detected	Detected	Not Detected	Not Detected	Not Detected
Sample Matrix ⁽⁵⁾	Material Type	N/a	NONE		Amosite present as fibre bundles			
Asbestos Type ⁽⁵⁾	PLM Result	N/a	ISO17025		Amosite			
pH	pH Units	N/a	MCERTS	8.4	8.2	8.0	6.5	6.4
Total Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Complex Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Free Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	970	1354	387	< 200	335
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.10	0.14	0.04	< 0.02	0.03
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	23	174	22	11	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.02	0.17	0.02	0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Organic Matter (SOM)	%	< 0.1	MCERTS	19.7	6.7	9.5	1.3	4.6
Arsenic (As)	mg/kg	< 2	MCERTS	17	7	8	3	12
Barium (Ba)	mg/kg	< 2.5	MCERTS	328.0	242.0	141.0	32.3	78.4
Beryllium (Be)	mg/kg	< 0.5	MCERTS	0.8	< 0.5	1.6	< 0.5	0.7
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.6	0.8	0.5	< 0.2	0.3
Chromium (Cr)	mg/kg	< 2	MCERTS	210	13	31	16	15
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	87	21	40	8	25
Lead (Pb)	mg/kg	< 3	MCERTS	87	304	53	9	55
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	24	14	26	11	13
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Vanadium (V)	mg/kg	< 1	MCERTS	72	19	38	22	26
Zinc (Zn)	mg/kg	< 3	MCERTS	88	180	104	38	59
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2

Soil Analysis Certificate						
DETS Report No: 25-06877	~Date Sampled	23/07/25	23/07/25			
Earth Environmental & Geotechnical Ltd	~Time Sampled	None Supplied	None Supplied			
~Site Reference: Glossop Road	~TP / BH No	WS05	WS05			
~Project / Job Ref: A6549	~Additional Refs	None Supplied	None Supplied			
~Order No: A6549	~Depth (m)	0.10	0.80			
Reporting Date: 05/08/2025	DETS Sample No	784132	784133			

Determinand	Unit	RL	Accreditation			
Asbestos Screen ⁽⁵⁾	N/a	N/a	ISO17025	Not Detected	Detected	
Sample Matrix ⁽⁵⁾	Material Type	N/a	NONE		Chrysotile present as fibre bundles	
Asbestos Type ⁽⁵⁾	PLM Result	N/a	ISO17025		Chrysotile	
pH	pH Units	N/a	MCERTS	7.9	7.9	
Total Cyanide	mg/kg	< 1	NONE	< 1	< 1	
Complex Cyanide	mg/kg	< 1	NONE	< 1	< 1	
Free Cyanide	mg/kg	< 1	NONE	< 1	< 1	
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	413	717	
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.04	0.07	
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	12	12	
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.01	0.01	
Sulphide	mg/kg	< 5	NONE	< 5	< 5	
Organic Matter (SOM)	%	< 0.1	MCERTS	13	12.9	
Arsenic (As)	mg/kg	< 2	MCERTS	9	6	
Barium (Ba)	mg/kg	< 2.5	MCERTS	290.0	232.0	
Beryllium (Be)	mg/kg	< 0.5	MCERTS	2.9	1.2	
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	1.2	0.6	
Chromium (Cr)	mg/kg	< 2	MCERTS	26	90	
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	
Copper (Cu)	mg/kg	< 4	MCERTS	71	44	
Lead (Pb)	mg/kg	< 3	MCERTS	41	47	
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	
Nickel (Ni)	mg/kg	< 3	MCERTS	38	25	
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	
Vanadium (V)	mg/kg	< 1	MCERTS	54	41	
Zinc (Zn)	mg/kg	< 3	MCERTS	148	147	
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	

Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 25-06877	~Date Sampled	23/07/25	23/07/25	23/07/25	23/07/25	23/07/25
Earth Environmental & Geotechnical Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Glossop Road	~TP / BH No	WS01	WS01	WS02	WS03	WS04
~Project / Job Ref: A6549	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: A6549	~Depth (m)	0.20	0.60	0.10	1.00	0.20
Reporting Date: 05/08/2025	DETS Sample No	784127	784128	784129	784130	784131

Determinand	Unit	RL	Accreditation	(n)				
Naphthalene	mg/kg	< 0.1	MCERTS	0.16	< 0.1	< 0.1	< 0.1	0.30
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.11	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.36	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.33	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	0.88	0.43	3.03	< 0.1	0.21
Anthracene	mg/kg	< 0.1	MCERTS	0.26	< 0.1	1.18	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	2.39	0.38	7.21	< 0.1	0.16
Pyrene	mg/kg	< 0.1	MCERTS	2.24	0.47	6.39	< 0.1	0.13
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	1.37	< 0.1	3.56	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	1.75	0.99	2.97	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	2.80	< 0.1	4.41	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	1.07	< 0.1	1.25	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	2.70	< 0.1	4.13	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	1.37	< 0.1	2.51	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.56	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	1.43	< 0.1	2.42	< 0.1	< 0.1
**Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	18.4	2.3	40.4	< 1.6	< 1.6

Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 25-06877	~Date Sampled	23/07/25	23/07/25			
Earth Environmental & Geotechnical Ltd	~Time Sampled	None Supplied	None Supplied			
~Site Reference: Glossop Road	~TP / BH No	WS05	WS05			
~Project / Job Ref: A6549	~Additional Refs	None Supplied	None Supplied			
~Order No: A6549	~Depth (m)	0.10	0.80			
Reporting Date: 05/08/2025	DETS Sample No	784132	784133			

Determinand	Unit	RL	Accreditation			
Naphthalene	mg/kg	< 0.1	MCERTS	0.13	0.90	
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	0.70	
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	10.50	
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	7.96	
Phenanthrene	mg/kg	< 0.1	MCERTS	0.53	93.50	
Anthracene	mg/kg	< 0.1	MCERTS	0.16	23.40	
Fluoranthene	mg/kg	< 0.1	MCERTS	2.64	165	
Pyrene	mg/kg	< 0.1	MCERTS	2.72	157	
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	1.64	68.20	
Chrysene	mg/kg	< 0.1	MCERTS	1.70	54.30	
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	2.72	90.80	
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	1.17	31	
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	2.85	78.10	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	1.84	48.30	
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	0.45	5.74	
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	1.70	41.30	
**Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	20.3	877	

Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 25-06877	~Date Sampled	23/07/25	23/07/25	23/07/25	23/07/25	23/07/25
Earth Environmental & Geotechnical Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Glossop Road	~TP / BH No	WS01	WS01	WS02	WS03	WS04
~Project / Job Ref: A6549	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: A6549	~Depth (m)	0.20	0.60	0.10	1.00	0.20
Reporting Date: 05/08/2025	DETS Sample No	784127	784128	784129	784130	784131

Determinand	Unit	RL	Accreditation	(n)				
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	3
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	11	< 3	< 3	< 3
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	13	319	3	< 3	< 3
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	321	1815	12	< 10	< 10
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	334	2144	< 21	< 21	< 21
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	2	4	< 2	< 2
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	21	119	45	< 3	< 3
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	549	984	146	< 10	< 10
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	570	1106	195	< 21	< 21
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	904	3250	210	< 42	< 42

Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 25-06877	~Date Sampled	23/07/25	23/07/25			
Earth Environmental & Geotechnical Ltd	~Time Sampled	None Supplied	None Supplied			
~Site Reference: Glossop Road	~TP / BH No	WS05	WS05			
~Project / Job Ref: A6549	~Additional Refs	None Supplied	None Supplied			
~Order No: A6549	~Depth (m)	0.10	0.80			
Reporting Date: 05/08/2025	DETS Sample No	784132	784133			

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2			
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2	< 2			
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	6			
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3	33			
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	< 10	217			
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21	255			
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2			
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	< 2			
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2	56			
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	10	727			
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	43	1409			
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	53	2193			
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Tot al	mg/kg	< 42	NONE	53	2449			

Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 25-06877	~Date Sampled	23/07/25	23/07/25	23/07/25	23/07/25	23/07/25
Earth Environmental & Geotechnical Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: Glossop Road	~TP / BH No	WS01	WS01	WS02	WS03	WS04
~Project / Job Ref: A6549	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: A6549	~Depth (m)	0.20	0.60	0.10	1.00	0.20
Reporting Date: 05/08/2025	DETS Sample No	784127	784128	784129	784130	784131

Determinand	Unit	RL	Accreditation	(n)				
Benzene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene : HS_1D_MS	µg/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE : HS_1D_MS	µg/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5

Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 25-06877	~Date Sampled	23/07/25	23/07/25			
Earth Environmental & Geotechnical Ltd	~Time Sampled	None Supplied	None Supplied			
~Site Reference: Glossop Road	~TP / BH No	WS05	WS05			
~Project / Job Ref: A6549	~Additional Refs	None Supplied	None Supplied			
~Order No: A6549	~Depth (m)	0.10	0.80			
Reporting Date: 05/08/2025	DETS Sample No	784132	784133			

Determinand	Unit	RL	Accreditation				
Benzene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2		
Toluene : HS_1D_MS	µg/kg	< 5	MCERTS	< 5	< 5		
Ethylbenzene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2		
p & m-xylene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2		
o-xylene : HS_1D_MS	µg/kg	< 2	MCERTS	< 2	< 2		
MTBE : HS_1D_MS	µg/kg	< 5	MCERTS	< 5	< 5		

Waste Acceptance Criteria Analytical Certificate																																							
DETS Report No: 25-06877		~Date Sampled		23/07/25		<table border="1"> <thead> <tr> <th colspan="3">Landfill Waste Acceptance Criteria Limits</th> </tr> <tr> <th>Inert Waste Landfill</th> <th>Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill</th> <th>Hazardous Waste Landfill</th> </tr> </thead> <tbody> <tr> <td>3%</td> <td>5%</td> <td>6%</td> </tr> <tr> <td>--</td> <td>--</td> <td>10%</td> </tr> <tr> <td>6</td> <td>--</td> <td>--</td> </tr> <tr> <td>1</td> <td>--</td> <td>--</td> </tr> <tr> <td>500</td> <td>--</td> <td>--</td> </tr> <tr> <td>100</td> <td>--</td> <td>--</td> </tr> <tr> <td>--</td> <td>>6</td> <td>--</td> </tr> <tr> <td>--</td> <td>To be evaluated</td> <td>To be evaluated</td> </tr> </tbody> </table>				Landfill Waste Acceptance Criteria Limits			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	3%	5%	6%	--	--	10%	6	--	--	1	--	--	500	--	--	100	--	--	--	>6	--	--	To be evaluated	To be evaluated
Landfill Waste Acceptance Criteria Limits																																							
Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill																																					
3%	5%	6%																																					
--	--	10%																																					
6	--	--																																					
1	--	--																																					
500	--	--																																					
100	--	--																																					
--	>6	--																																					
--	To be evaluated	To be evaluated																																					
Earth Environmental & Geotechnical Ltd		~Time Sampled		None Supplied																																			
~Site Reference: Glossop Road		~TP / BH No		WS01																																			
~Project / Job Ref: A6549		~Additional Refs		None Supplied																																			
~Order No: A6549		~Depth (m)		0.20																																			
Reporting Date: 05/08/2025		DETS Sample No		784127																																			
Determinand		Unit		MDL																																			
TOC ^{MU}		%		< 0.1		11.4																																	
Loss on Ignition ^{MU}		%		< 0.01		13.40																																	
BTEX ^{MU}		mg/kg		< 0.05		< 0.05																																	
Sum of PCBs		mg/kg		< 0.1		< 0.1																																	
Mineral Oil ^{MU}		mg/kg		< 10		416																																	
Total PAH ^{MU}		mg/kg		< 1.7		18.4																																	
pH ^{MU}		pH Units		N/a		8.4																																	
Acid Neutralisation Capacity		mol/kg (+/-)		< 1		1.8																																	
Eluate Analysis				2:1	8:1		Cumulative 10:1 *	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)																															
				mg/l	mg/l		mg/kg																																
Arsenic				0.0027	0.0026		0.026	0.5	2																														
Barium				0.0442	0.0368		0.384	20	100																														
Cadmium				< 0.0002	< 0.0002		< 0.002	0.04	1																														
Chromium				0.0033	0.0021		0.024	0.5	10																														
Copper				0.0076	0.0103		0.099	2	50																														
Mercury				0.00017	0.00013		0.0014	0.01	0.2																														
Molybdenum				0.0030	0.0013		0.016	0.5	10																														
Nickel				0.0006	0.0005		0.0051	0.4	10																														
Lead				0.0012	0.0009		0.010	0.5	10																														
Antimony				< 0.0002	< 0.0002		< 0.002	0.06	0.7																														
Selenium				0.0005	0.0006		0.0057	0.1	0.5																														
Zinc				0.007	0.009		0.09	4	50																														
Chloride				2	5		42	800	15000																														
Fluoride				1.3	0.6		7.1	10	150																														
Sulphate				5	3		37	1000	20000																														
TDS				89	66		708	4000	60000																														
Phenol Index				< 0.01	< 0.01		< 0.5	1	-																														
DOC				7.5	15.8		144	500	800																														
Leach Test Information																																							
Sample Mass (kg)				0.09																																			
Dry Matter (%)				91.6																																			
Moisture (%)				9.2																																			
Stage 1																																							
Volume Eluate L2 (litres)				0.17																																			
Filtered Eluate VE1 (litres)				0.16																																			
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion Stated limits are for guidance only and Normec DETS Limited cannot be held responsible for any discrepancies with current legislation																																							

Soil Analysis Certificate - Sample Descriptions

DETS Report No: 25-06877
Earth Environmental & Geotechnical Ltd
~Site Reference: Glossop Road
~Project / Job Ref: A6549
~Order No: A6549
Reporting Date: 05/08/2025

DETS Sample No	~TP / BH No	~Additional Refs	~Depth (m)	Moisture Content (%)	Sample Matrix Description
784127	WS01	None Supplied	0.20	7.9	Black loamy sand with gravel and stones
784128	WS01	None Supplied	0.60	11.2	Brown sandy gravel with stones and concrete
784129	WS02	None Supplied	0.10	7.4	Black loamy sand with stones and concrete
784130	WS03	None Supplied	1.00	12.3	Light brown sandy clay
784131	WS04	None Supplied	0.20	10.1	Brown sandy clay with vegetation
784132	WS05	None Supplied	0.10	7.3	Black loamy sand with stones and concrete
784133	WS05	None Supplied	0.80	9.7	Black loamy sand with stones

Moisture content is part of procedure E003 & is not an accredited test

Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 25-06877
Earth Environmental & Geotechnical Ltd
~Site Reference: Glossop Road
~Project / Job Ref: A6549
~Order No: A6549
Reporting Date: 05/08/2025

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphénylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 25-06877	
Earth Environmental & Geotechnical Ltd	
~Site Reference: Glossop Road	
~Project / Job Ref: A6549	
~Order No: A6549	
Reporting Date: 05/08/2025	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	F	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	UF	Biological Oxygen Demand (BOD)	Determination using BOD sensors measuring the change of pressure	E133
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	F	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	F	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	F	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	F	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E115
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Acidification, followed by high-temperature oxidation and IR detection.	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

List of HWOL Acronyms and Operators
DETS Report No: 25-06877
Earth Environmental & Geotechnical Ltd
~Site Reference: Glossop Road
~Project / Job Ref: A6549
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Reporting Date: 05/08/2025

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total
~	Sample details provided by customer and can affect the validity of results

Benzene - HS_1D_MS
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
Mineral Oil (C10 - C40) (BS EN 12457-3) - EH_CU_1D_AL
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aliphatic C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
Total BTEX (BS EN 12457-3) - HS_1D_MS_Total
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS

Parameter	Matrix Type	Expanded Uncertainty Measurement	Unit
TOC	Soil	11	%
Loss on Ignition	Soil	24	%
BTEX	Soil	11	%
Sum of PCBs	Soil	30	%
Mineral Oil	Soil	9	%
Total PAH	Soil	17	%
pH	Soil	0.2	Units
Acid Neutralisation Capacity	Soil	18	%
Clay Content	Soil	15	%
Silt Content	Soil	14	%
Sand Content	Soil	13	%
Loss on Ignition	Soil	24	%
pH	Soil	0.2	Units
Carbonate	Soil	12	%
Total Nitrogen	Soil	12	%
Phosphorus (Extractable)	Soil	24	%
Potassium (Extractable)	Soil	20	%
Magnesium (Extractable)	Soil	26	%
Zinc	Soil	26	%
Copper	Soil	24	%
Nickel	Soil	29	%
Available Sodium	Soil	23	%
Available Calcium	Soil	23	%
Electrical Conductivity	Soil	10	%

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Certificate Key

Symbol	Description
F	Filtered sample
UF	Unfiltered sample
D	Dried sample
AR	As received sample
RL	Reporting limit
~	Sample details provided by customer and can affect the validity of results
M/S	Missing Sample
*	The Dutch 10 PAH compounds consist of Naphthalene, Anthracene, Phenanthrene, Fluoranthene, Benz(a)anthracene, Chrysene, Benzo(k)fluoranthene, Benzo(a)pyrene, Benzo(g,h,i)perylene, and Indeno(1,2,3-cd)pyrene
**	Total EPA-16 PAHs consist of the following polycyclic aromatic hydrocarbons: Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, and Benzo(ghi)perylene.
***	Total WAC-17 PAHs consist of the following polycyclic aromatic hydrocarbons: Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(ghi)perylene and Coronene.
^	No sampling date provided; unable to confirm if samples are within acceptable holding times
n	Please note that we are MCERTS soil accredited (UK soils only) for sand, loam, and clay, and UKAS accredited for groundwater, tap water, surface water, and generated leachates. Other matrices are outside our scope of accreditation.
S	Subcontracted analysis
M	MCERTS accredited test
U	UKAS accredited test